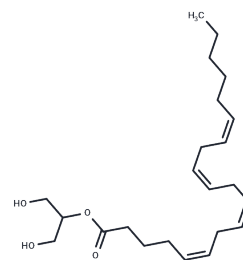


2-Arachidonoylglycerol

Chemical Properties

CAS No. :	53847-30-6
Formula:	C23H38O4
Molecular Weight:	378.55
Storage:	Store at low temperature
	Pure form: -20°C for 3 years In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	2-Arachidonoylglycerol activates neuronal cannabinoid receptors as a full agonist, and prevents the induction of long-term potentiation at CA3-CA1 synapses.
Targets(IC50)	Cannabinoid Receptor, Endogenous Metabolite
In vitro	2-Arachidonoylglycerol (2-AG), a cannabinoid ligand obtained from intestinal tissue, functions as a full agonist in activating neuronal cannabinoid receptors. It impedes the development of long-term potentiation at CA3-CA1 synapses and, by binding to cannabinoid receptors, produces effects characteristic of cannabinoid drugs[1].

Solubility Information

Solubility	DMSO: 10 mg/mL (26.42 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6417 mL	13.2083 mL	26.4166 mL
5 mM	0.5283 mL	2.6417 mL	5.2833 mL
10 mM	0.2642 mL	1.3208 mL	2.6417 mL
50 mM	0.0528 mL	0.2642 mL	0.5283 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Stella N, et al. A second endogenous cannabinoid that modulates long-term potentiation. Nature. 1997 Aug 21; 388(6644):773-8.

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